

Electronic Filing System (EFS) Data
Electronic Patent Application Submission
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EFS ID: 14485
Application ID: 10063238
Title of Invention: LOW WEAR AND LOW FRICTION
COATINGS FOR ARTICLES MADE
OF LOW SOFTENING POINT
MATERIALS
First Named Inventor: V. Durga Rao
Domestic/Foreign Application: Domestic Application
Filing Date: null
Effective Receipt Date: 2002-04-02
Submission Type: Utility Patent Filing
Filing Type: new-utility
Confirmation Number: 0
Attorney Docket Number: 201-0043 DP
Digital Certificate Holder: cn=Damian Porcari, ou=Registered Attorneys, ou=Patent and
Trademark Office, ou=Department of Commerce, o=U.S.
Government, c=US
Certificate Message Digest: c+FHt9DDc+/Orqun00SSMA==
Total Fees Authorized: \$780.0
Payment Category: DA - Deposit Account
Deposit Account Number: 61510
Deposit Account Name: Sheri L. Charles



TRANSMITTAL FORM

1c474 U.S. PTO
10/063238
04/02/02

Electronic Version 1.0.3

Stylesheet Version: 1.0

Attorney Docket
Number:

201-0043
DP

Submission Type: Utility Patent
Filing

LOW WEAR AND LOW FRICTION COATINGS FOR ARTICLES MADE OF LOW SOFTENING POINT MATERIALS

First Named Inventor: V. Durga Nageswar Rao

SUBMITTED BY

Organization Name:

Ford Motor Company

Name:

Sheri Lynn Charles Electronic
Application Specialist

Electronic Signature Mark: /slc

Date Signed: 20020402

I certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.

I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.

Attached Files:

declaration

declaration1of2.tif

declaration

declaration2of2.tif

declaration	consent.tif
declaration	ids1of3.tif
declaration	ids2of3.tif
declaration	ids3of3.tif
patent-assignments	201-0043asgn.xml
specification	spec.xml
fee-transmittal	201-0043fee.xml
bibd-transmittal	201-0043apds.xml

Attached Image File(s):

declaration1of2.tif

declaration2of2.tif

consent.tif

ids1of3.tif

ids2of3.tif

ids3of3.tif

Comments:

If insufficient funds in deposit account 06-1510, please charge deposit account 06-1505.

[illegible]

DECLARATION AND POWER OF ATTORNEY - ORIGINAL APPLICATIONAttorney's Docket No.
201-0043

As a below named inventor, I hereby declare:

My residence, post office address and citizenship are as stated below next to my name;

I verily believe I am the original, first and sole inventor or an original, first and joint inventor of the subject matter that is claimed for which a patent is sought on the invention entitled

LOW WEAR AND LOW FRICTION COATINGS FOR ARTICLES MADE OF LOW SOFTENING POINT MATERIALS

the specification of which is attached hereto.

I have reviewed and understand the contents of the specification identified above, including the claims.

I acknowledge my duty to disclose information of which I am aware that is material to the examination of this application in accordance with Section 1.56(a), Title 37 of the Code of Federal Regulations; and as to application for patents or inventor's certificate on the invention filed in any country foreign to the United States of America prior to this application by me or my legal representatives or assigns,

☒ no such applications have been filed, or☐ such applications have been filed as follows:☐ I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below

COUNTRY	APPLICATION NO.	DATE OF FILING (month, day, year)	DATE OF ISSUE (month, day, year)	PRIORITY CLAIMED UNDER 35 USC 119	<input type="checkbox"/> Additive provisional application numbers are on a supply priority data PTO/SB/O attached hereto

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR § 1.56 which becomes available between the filing date of the prior application and the national or PCT International filing date of this application.

(Application Number)	(Filing Date)	(Status - patented, pending, abandoned)
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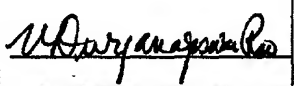
(Application Number)	(Filing Date)	(Status - patented, pending, abandoned)
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POWER OF ATTORNEY: - I/we hereby appoint the following Practitioners: Customer No. 28395, Michael S. Brodbine - as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office and all foreign Patent Offices.

Address all correspondence and telephone calls to:

Michael S. Brodbine
Brooks & Kushman
1000 Town Center Twenty-Second Floor
Southfield, MI 48075-1351 Phone: 248-358-4400

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statement jeopardize the validity of the application or any patent issuing thereon.

NAME AND MAILING ADDRESS OF INVENTOR:	RESIDENCE	CITIZENSHIP	SIGNATURE
V. Durga Nageswar Rao 5255 Clarendon Crest Bloomfield Hills, MI 48302 US	Bloomfield Hills, MI 48302 US	U.S.A	

PATENT APPLICATION

ASSISTANT COMMISSIONER FOR PATENTS
Washington, D. C. 20231

Case Docket No. 201-0043
Date: March 15, 2002

Sir:

Inventor(s):
V. Durga Rao

For: **LOW WEAR AND LOW FRICTION COATINGS FOR ARTICLES MADE OF LOW SOFTENING POINT MATERIALS**

The attorney or agent below has reviewed this application and its attachments and consents to electronic filing by the assignee.

Respectfully submitted:



Damian Porcari
Attorney or Agent of Record
Registration No. 31,461
Ford Global Technologies, Inc.
One Parklane Blvd.,
600 Parklane Towers East
Dearborn, MI 48126
Telephone: 1-313-8455101

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

V. DURGA N. RAO

Serial No.: TO BE ASSIGNED

Filed: HEREWITH

For: LOW WEAR AND LOW FRICTION COATINGS FOR
ARTICLES MADE OF LOW SOFTENING POINT
MATERIALS

Attorney Docket No.: FMC 1409 PUS / 201-0043

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97(b)(1)

Box Patent Application
Commissioner for Patents
United States Patent and Trademark Office
Washington, D.C. 20231

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and § 1.97-1.98, the references listed and identified on the attached Forms PTO/SB08A and B are being submitted herewith for consideration by the Examiner. This Statement is being filed in accordance with 37 C.F.R. § 1.97(b)(1).


While this Statement is being filed in compliance with the duty of disclosure, citation of the attached references is not to be construed as an admission that any of the references are "material" as defined under 37 C.F.R. § 1.56(b).

A copy of each reference listed on the attached Forms PTO/SB08A and B is included herewith. Consideration and entry into the record of these references is respectfully requested.

Respectfully submitted,

V. DURGA N. RAO

Date: November 15, 2001

By: 
MICHAEL S. BRODBINE
Reg. No. 38,392
Attorney for Applicant

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WI Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

Substitute for Form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Complete if Known			
		Application Number	TO BE ASSIGNED		
		Filing Date	HEREWITH		
		First Named Inventor	V. DURGA N. RAO		
		Group Art Unit			
		Examiner Name			
Sheet	2	of	2	Attorney Docket Number	FMC 1409 PUS / 201-0043
OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
		SAE Technical Paper No. 970009, "Engine Studies of Solid Film Lubricant Coated Pistons", V.D.N. Rao et al, February 24-27, 1997, pp. 69-82.			
		SAE Technical Paper No. 970022, "Friction and Wear Characteristics of Micro-Arc Oxidation Coating for Light Weight, Wear Resistant, Powertrain Component Application", V.D.N. Rao et al, 1997, pp. 1-15.			
		SAE Technical Paper No. 970023, "Material Systems for Cylinder Bore Applications - Plasma Spray Technology", V.D.N. Rao et al, February 24-27, 1997, pp. 107-132.			

FEE TRANSMITTAL

Electronic Version 1.1.0

Stylesheet Version: 1.0

Patent fees are subject to annual revisions on or about October 1st of each year.

Large Entity

TOTAL FEES AUTHORIZED: \$ 780

The commissioner is hereby authorized to charge indicated processing and/or publication fees and credit any overpayments to:

Deposit Account Number: 06-1510

Deposit Account Name: Ford Global Technologies, Inc.



Charge Any Additional Fee Required Under 37 C.F.R. Sections 1.16 and 1.17.

Charge Assignment Fees Required Under 37 C.F.R. Section 1.21 (h).

SUBMITTED BY

Authorized Name: Sheri L. Charles

Electronic Signature Mark: /slc

Date Signed: 20020402

BASIC FILING FEE

Fee Description	Fee Code	Fee Paid
Utility Filing Fee	101	\$ 740

Subtotal For Basic Filing Fee: \$ 740

EXTRA CLAIM FEES

	Fee Code	Fee	Extra Claims	Fee Paid
Total Claims: 20	103	\$ 18	0	\$ 0
Independent Claims: 3	102	\$ 84	0	\$ 0

Subtotal For Extra Claims Fees: \$ 0

ADDITIONAL FEES

Fee Description	Number	Quantity	Fee Code	Amount	Fee Paid
Recording Each Patent Assignment Per Property Fee	00000000	1	581	\$ 40	\$ 40

Subtotal For Additional Fees: \$ 40

APP ID=10063238